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James R. Headrick, MD, Francis C. Nichols III, MD, Daniel L. Miller, MD, Mark S. Allen, MD, Victor F. Trastek, MD, Claude Deschamps, MD, Cathy D. Schleck, BS, Ann M. Thompson, RN, and Peter C. Pairolero, MD
- 1704 The Influence of Perioperative Blood Transfusion on Survival After Esophageal Resection for Carcinoma**
Stephen M. Langley, MD, FRCS(CTh), Christos Alexiou, FRCS, Daniel H. Bailey, MBBS, and David F. Weeden, FRCS(CTh)
- 1710 Thoracoscopic and Laparoscopic Lymph Node Staging in Esophageal Cancer: Do Clinicopathological Factors Affect the Outcome?**
Mark J. Krasna, MD, Xiaolong Jiao, MD, Joshua R. Sonett, MD, Ziv Gamliel, MD, Afshin Eslami, MD, Yael Raefaly, MD, and Yousheng Mao, MD
- 1714 Chylothorax Complicating Pulmonary Resection**
Françoise Le Pimpec-Barthes, MD, Nicola D'Attellis, MD, Antoine Dujon, MD, Philippe Legman, MD, and Marc Riquet, MD, PhD

- 1720 Chest Wall Resections and Reconstruction: A 25-Year Experience**
Kamal A. Mansour, MD, Vinod H. Thourani, MD, Albert Losken, MD, James G. Reeves, BS, Joseph I. Miller, Jr, MD, Grant W. Carlson, MD, and Glyn E. Jones, MD
- 1727 Predictors and Treatment of Persistent Air Leaks**
Robert J. Cerfolio, MD, FACS, Cynthia Sale Bass, CRNP, Amanda Harrison Pask, RN, and Charles R. Katholi, PhD
- 1732 Prognostic Significance of Neuroendocrine Differentiation in Adenocarcinoma of the Lung**
Kenzo Hiroshima, MD, Akira Iyoda, MD, Kiyoshi Shibuya, MD, Tetsuya Toyozaki, MD, Yukiko Haga, MD, Takehiko Fujisawa, MD, and Hidemi Ohwada, MD
- 1736 Personal Experience in Lung Cancer Sleeve Lobectomy and Sleeve Pneumonectomy**
Maurizio Mezzetti, MD, Tiziana Panigalli, MD, Luigi Giuliani, MD, Federico Raveglia, MD, Fabio Lo Giudice, MD, and Stefano Meda, MD

- 1740 Adenoviral Herpes Simplex Virus Thymidine Kinase Gene Therapy in an Orthotopic Lung Cancer Model**
Mari Fukunaga, MD, Shinzo Takamori, MD, Akihiro Hayashi, MD, Kazuo Shirouzu, MD, and Ken-ichiro Kosai, MD, PhD

- 1747 Survival Analysis of Rats Implanted With Porous Titanium Tracheal Prosthesis**
Philippe Schultz, MD, Dominique Vautier, PhD, Johanna Chluba, PhD, Luc Marcellin, MD, and Christian Debry, MD, PhD

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CARDIOVASCULAR**

- 1752 Current Incidence of Acute Neurologic Complications After Open-Heart Operations in Children**
Caroline C. Menache, MD, Adré J. du Plessis, MBChB, David L. Wessel, MD, Richard A. Jonas, MD, and Jane W. Newburger, MD

- 1759 Comparable Systemic Ventricular Function in Healthy Adults and Patients With Unoperated Congenitally Corrected Transposition Using MRI Dobutamine Stress Testing**
Ali Dodge-Khatami, MD, Igor I. Tulevski, MD, Ger B. W. E. Bennink, MD, PhD, J. François Hitchcock, MD, PhD, Bas A. J. M. de Mol, MD, PhD, Ernst E. van der Wall, MD, PhD, and Barbara J. M. Mulder, MD, PhD

- 1765 Change of Serum Growth Factors in Infants With Isolated Ventricular Defect Undergoing Surgical Repair**
Tsung-Po Tsai, MD, Jung-Min Yu, MD, Yi-Liang Wu, MD, and Chih-Yang Huang, PhD, and Fong-Lin Chen, MD

Invited Commentary
Pedro J. del Nido, MD

- 1770 Coagulation Factor Abnormalities in Patients With Single-Ventricle Physiology Immediately Prior to the Fontan Procedure**
Kirsten C. Odegard, MD, Francis X. McGowan, Jr, MD, David Zurakowski, PhD, James A. DiNardo, MD, Robert A. Castro, MT, Pedro J. del Nido, MD, and Peter C. Laussen, MBBS

- 1778 Valved Homograft Replacement of Aneurysmal Pulmonary Arteries for Severely Symptomatic Absent Pulmonary Valve Syndrome**
Chee Chin Hew, MD, Sabine H. Daebritz, MD, David Zurakowski, PhD, Pedro I. del Nido, MD, John E. Mayer, Jr, MD, and Richard A. Jonas, MD

- 1786 Repair of Ebstein's Anomaly in the Symptomatic Neonate: An Evolution of Technique With 7-Year Follow-Up**
Christopher J. Knott-Craig, MD, Edward D. Overholt, MD, Kent E. Ward, MD, Jeremy M. Ringewald, MD, Sherri S. Baker, MD, and Jerry D. Razook, MD

- 1794 Right Ventricular Dysfunction and Pulmonary Valve Replacement After Correction of Tetralogy of Fallot**
Frank T. H. de Ruijter, MD, Ineke Weenink, MD, Francois J. Hitchcock, MD, Erik J. Meijboom, MD, PhD, and Ger B. W. E. Bennink, MD, PhD

- 1801 One Hundred Pulmonary Valve Replacements in Children After Relief of Right Ventricular Outflow Tract Obstruction**
Kirk R. Kanter, MD, Jason M. Budde, MD, W. James Parks, MD, Vincent K. H. Tam, MD, Shiva Sharma, MD, Willis H. Williams, MD, and Derek A. Fyfe, MD

- 1808 Partial Replacement of the Tricuspid Valve by Mitral Homografts in Acute Endocarditis**
Jean-Paul A. Couetil, MD, Pantelis G. Argyriadis, MD, Abdel Shafy, MD, Ariel Cohen, MD, Alain J. Berrebi, MD, Didier F. Loulmet, MD, Juan-Carlos Chachques, MD, PhD, and Alain F. Carpentier, MD, PhD

- 1813 Endocarditis After Mitral Valve Repair**
A. Marc Gillinov, MD, Christiano N. Faber, MD, Joseph F. Sabik, MD, Gosta Pettersson, MD, Brian P. Griffin, MD, Steven M. Gordon, MD, Emil Hayek, MD, Linda M. Di Paola, BA, Delos M. Cosgrove III, MD, and Eugene H. Blackstone, MD

- 1817 Eight-Year Results of Aortic Root Replacement With the Freestyle Stentless Porcine Aortic Root Bioprosthesis**
Neal D. Kon, MD, Robert D. Riley, MD, Sandy M. Adair, RN, Dalane W. Kitzman, MD, and A. Robert Cordell, MD

- 1822 Patient Prosthesis Mismatch Is Rare After Aortic Valve Replacement: Valve Size May Be Irrelevant**
Naoki Hanayama, MD, George T. Christakis, MD, Hari R. Mallidi, MD, Campbell D. Joyner, MD, Stephen E. Fremes, MD, Christopher D. Morgan, MD, Peter R. R. Mitoff, and Bernard S. Goldman, MD

1830 Preliminary Experience

**With the St. Jude Medical
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Early In Vivo Hemodynamic Results

Sandro Gelsomino, MD, Giorgio Morocutti, MD,
Paolo Da Col, MD, Romeo Frassani, MD, Rocco
Carella, MD, Giorgio Minen, MD, and Ugolino
Livi, MD

Invited Commentary

W.R. Eric Jamieson, MD

**1837 Aortic Arch Repair With
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Oğuz Taşdemir, MD, Ahmet Sarıtaş, MD, Şeref
Küçük, MD, Mehmet Ali Özatik, MD, and Erol
Şener, MD

**1843 Surgical Treatment of Acute Type
A Dissection: Is Rupture a Risk Factor?**

Marek P. Ehrlich, MD, Martin Grabenwöger,
MD, Juliane Kilo, MD, Alfred A. Kocher, MD,
Georg Grubhofer, MD, Andrea M. Lassnig, MD,
Edda M. Tschernko, MD, Bernhard Schlehta,
MD, Doris Hutschala, MD, Hans Domanovits,
MD, Gottfried Sodeck, MD, and Ernst Wolner,
MD

1849 Coronary Hybrid**Revascularization from January 1997
to January 2001: A Clinical Follow-Up**

Friedrich-Christian Riess, MD, Ralf Bader, MD,
Peter Kremer, MD, Clemens Kühn, MD, Joachim
Kormann, MD, Detlef Mathey, MD, Sina Moshar,
MD, Thilo Tuebler, MD, Niels Bleese, MD, and
Joachim Schofer, MD

**1856 Right Internal Mammary Artery and
Radial Artery Composite In Situ Pedicle
Graft in Coronary Artery Bypass Grafting**

Lokeswara Rao Sajja, MCh, and Gopichand
Mannam, FRCS(CT)

**1860 Effects of Cerivastatin on
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Koki Nakamura, MD, Sharif Al-Ruzzeh, FRCS,
Adrian H. Chester, PhD, Ilona Schmidt, MD,
Mahmoud Barbir, FRCP, Magdi H. Yacoub,
FRCS, and Mohamed Amrani, FETCS

Invited Commentary

Guo-Wei He, MD, PhD

**1866 Evaluation of the Effectiveness
of Off-Pump Coronary Artery
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Patients: An Observational Study**

Martin H. Chamberlain, FRCS, Raimondo
Ascione, MD, Barnaby C. Reeves, DPhil, and
Gianni D. Angelini, FRCS

**1874 Hemodynamic Collapse during
Off-Pump Coronary Artery Bypass Grafting**

Thomas A. Vassiliades, Jr, MD, James L. Nielsen,
MD, and James L. Lonquist, MD

**1880 Skeletonized Radial Artery
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Atsushi Amano, MD, Akihito Takahashi, MD,
and Hitoshi Hirose, MD, FICS

**1888 Factors Influencing
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Thomas Krabatsch, MD, Rainer Petzina, MD,
Harald Hausmann, MD, Andreas Koster, MD,
and Roland Hetzer, PhD

**1893 Laser-Assist During Extraction
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Marc R. Moon, MD, Cindy J. Camillo, RN, and
Marye J. Gleva, MD

**1897 Aprotinin in Coronary Operation
With Cardiopulmonary Bypass:
Does "Low-Dose" Aprotinin
Inhibit the Inflammatory Response?**

Lars Englberger, MD, Beat Kipfer, MD, Pascal A.
Berdar, MD, Urs E. Nydegger, MD, and Thierry
P. Carrel, MD

**ORIGINAL ARTICLES:
CARDIOVASCULAR****1905 Lactic Acidosis After
Cardiac Surgery Is Associated
With Polymorphisms in Tumor
Necrosis Factor and Interleukin 10 Genes**

Thomas Ryan, FFARCSI, Joanna Balding, BA,
Mod (Genetics), Eilis M. McGovern, FRCSI, John
Hinchion, FRCSI, Wendy Livingstone, PhD, Zeb
Chughtai, FRCSI, and Owen P. Smith, FRCPI

Invited Commentary

A. Leins, MD, and J. Cremer, MD, PhD

**1912 Retrograde Autologous
Priming of the Cardiopulmonary
Bypass Circuit Reduces Blood
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Subramaniam Balachandran, FRCA, Michael H.
Cross, FRCA, Sivagnanam Karthikeyan, FRCA,
Anilkumar Mulpur, FRCS, Stephen D. Hansbro,
and Peter Hobson, BS

**1919 Mesenchymal Stem Cell Implantation
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Jay G. Shake, MD, Peter J. Gruber, MD, PhD,
William A. Baumgartner, MD, Guylaine
Senechal, MS, Jennifer Meyers, BS, J. Mark
Redmond, MD, Mark F. Pittenger, PhD, and
Bradley J. Martin, PhD

1927 Avoiding Ischemia in Latissimus Dorsi Muscle Grafts: Electrical Prestimulation Versus Vascular Delay
Edwin B. C. Woo, FRCS, Jonathan C. Jarvis, PhD, Timothy L. Hooper, MD, and Stanley Salmons, PhD

1933 Platelet Activation, Aggregation, and Life Span in Calves Implanted With Axial Flow Ventricular Assist Devices
Trevor A. Snyder, BSE, Mary J. Watach, BS, Kenneth N. Litwak, DVM, PhD, and William R. Wagner, PhD

1939 Global Cardiac-Specific Transgene Expression Using Cardiopulmonary Bypass With Cardiac Isolation
Charles R. Bridges, MD, ScD, James M. Burkman, MD, Ramin Malekan, MD, Stefan M. Konig, MD, Hayen Chen, MD, Charles B. Yarnall, BS, Timothy J. Gardner, MD, Alan S. Stewart, MD, Mark M. Stecker, MD, PhD, Terry Patterson, PhD, and Hansel H. Stedman, MD

CASE REPORTS

1947 Graft-Versus-Host Disease-Type Colitis: An Unusual Association of Malignant Thymoma
Chady Sader, MBBS, Sanjay Sharma, MBBS, and Mark G. Edwards, FRACS

1948 Bronchial Transection Resulting From Trivial Blunt Chest Trauma
Sreedhar Reddy, MS, Piroze Davierwala, MCh, Pawan Kumar, MS, Nityanand Thakur, MS, Packirisamy Babu, MS, and Anil Tendolkar, MS

1950 Seat Belt-Related Chondrosternal Disruption With Lung Herniation
David Rice, MB, BCh, Naveen Bikkasani, MD, Raphael Espada, MD, Kenneth Mattox, MD, and Matthew Wall, MD

1951 Incidental Finding of Myeloproliferative Disorders During Sternotomy
Maher E. Deeb, MD, Yaron Shargal, MD, Gideon Merin, MD, and Eli Milgalter, MD

1952 Giant Mediastinal Chordoma
A. M. Rahman, MD, Iman G. Farahat, MS, Wael A. Ali, MS, and Kamal A. Mansour, MD

1954 Empyema Necessitatis into the Retroperitoneal Space
Toshihiko Sakamoto, MD, Yoshifumi Miyamoto, MD, Wataru Nishio, MD, Hidehito Matsuoka, MD, and Noriaki Tsubota, MD

1956 Chyothorax Associated With Massive Osteolysis (Gorham's Syndrome)
Koichi Fujiu, MD, Ryuzo Kanno, MD, Hiroyuki Suzuki, MD, Naoya Nakamura, MD, and Mitsukazu Gotoh, MD

1957 Large Cell Neuroendocrine Carcinoma: An Unusual Presentation
Anthony L. Estrera, MD, Philip T. Cagle, MD, Ali Azzadeh, MD, and Michael J. Reardon, MD

1960 Primary Mesenchymal Chondrosarcoma of the Lung
Hsuan-Ying Huang, MD, Ming-Jang Hsieh, MD, Wei-Jen Chen, MD, Sheung-Fat Ko, MD, Bor-Yau Yang, MD, and Shun-Chen Huang, MD

1962 Pulmonary Artery Stenting for Recurrent Lung Cancer After Left Pneumonectomy
Yuji Asato, MD, Ryuta Amemiya, MD, Moriyuki Kiyoshima, MD, Yasukazu Shioyama, MD, and Mikio Asato, MD

1964 Pulmonary Infarct Cytologically Mimicking Adenocarcinoma of the Lung
Roger E. Lawther, MRCS, Alastair N. J. Graham, MD, W. Glenn McCluggage, MRCPATH, and James A. McGuigan, FRCS(Ed)

1965 Glucocorticoids and Hippocampal Atrophy After Heart Transplantation
Asher P. Wilner, MD, Benoit de Varennes, MD, Pierre A. Gregoire, PhD, Sonia Lupien, PhD, and Jens C. Pruessner, PhD

1967 Spontaneous Disappearance of a False Aneurysm After Iatrogenic Ruptured Ventricle
Masayoshi Ito, MD, Hirokazu Murayama, MD, Atsushi Ishida, MD, Souichi Asano, MD, and Yasutsugu Nakagawa, MD

1969 Autograft Aortic Arch Extension and Sleeve Resection for Bronchial Compression After Interrupted Aortic Arch Repair
Max B. Mitchell, MD, David N. Campbell, MD, Warren H. Toews, MD, and Talat Z. Khan, MD

1971 Anterior Spinal Artery Syndrome After Elective Coronary Artery Bypass Grafting
Thomas E. Geyer, MRCS, Madhava J. Naik, FRCS, and Ravi Pillai, FRCS

1973 The Ross Procedure for Endocarditis in a 4-Month-Old Infant
Abdul Aziz S. Al-Baradai, MD, Roger J. F. Baskett, MD, Andrew E. Warren, MD, and David B. Ross, MD

1975 Huge Sinus of Valsalva Aneurysm Causing Mitral Valve Incompetence
Wan Ki Baek, MD, Joung Taek Kim, MD, Yong Han Yoon, MD, Kwang Ho Kim, MD, and Jun Kwan, MD

- 1977 Pulmonary Thromboendarterectomy in a Patient With Giant Cell Arteritis**
Stephanie J. Brister, MD, Kristine Wilson-Yang, PhD, Francesca V. Lobo, MD, Homer Yang, MD, and Richard Skala, MD

- 1979 Stenosed Kinking of the Left Main Coronary Artery Combined With an Aneurysm of the Ascending Aorta**
Paul P. Urbanski, MD, Yvonne Lindemann, MD, and Alexander Siebel, MD

- 1981 Aneurysm of the Left Atrial Appendage**
Pablo Maria Alberto Pomerantzeff, MD, Herbert Martin Freyre, MD, Carlos Manuel de Almeida Brandão, MD, Antonio Carlos Pereira Barreto, MD, and Sérgio Almeida de Oliveira, MD

IMAGES IN CARDIOTHORACIC SURGERY

- 1984 Postoperative Transient Internal Thoracic Artery Pseudoaneurysm**
Ruggero De Paulis, MD, Fabrizio Tomai, MD, and Luigi Chiariello, MD

- 1985 A Prominent Chiari Network**
Hiroyuki Tanaka, MD, Kazuo Ueda, MD, Mikiko Murakami, MD, Satoru Hasegawa, Makoto Sunamori, MD

HOW TO DO IT

- 1986 Double Valve Replacement Through an Aorto-Annulo-Atriotomy Using an Aortic-Valved Graft in a Mitral Position**
Richard Bauset, MD, and François Dagenais, MD

- 1988 Double-Switch Ross Procedure**
Jen-Ping Chang, MD, Chiung-Lun Kao, MD, and Ming-Jang Hsieh, MD

- 1990 A New Pattern for Using Both Thoracic Arteries to Revascularize the Entire Heart: The π -graft**
Sotirios N. Prapas, MD, Constantine E. Anagnostopoulos, MD, Vassilios N. Kotsis, MD, George P. Stavropoulos, MD, Alexis V. Sidiropoulos, MD, Olga G. Ananiadou, MD, and George M. Palatianos, MD

- 1993 Angiographic Results After the Use of a Sutureless Aortic Connector for Proximal Vein Graft Anastomoses**
Lars Wiklund, MD, Mogens Bugge, MD, and Eva Berglin, MD

REVIEWS

- 1995 Tracheal Replacement: A Critical Review**
Hermes C. Grillo, MD

- 2005 Determining the Extent of Cognitive Change After Coronary Surgery: A Review of Statistical Procedures**
Alexander Collie, PhD, David G. Darby, PhD, Marina G. Falletti, BBS (Hons), Brendan S. Silbert, MD, and Paul Maruff, PhD

KEY REFERENCES

- 2012 Photodynamic Therapy in Thoracic Surgery**
Harvey I. Pass, MD

SPECIAL REPORT FROM THE JOINT WORKFORCE COMMITTEE

- 2014 Thoracic Surgery Workforce: Snapshot at the End of the Twentieth Century and Implications for the New Millennium**
Richard J. Shemin, MD, Stanley W. Dziuban, MD, Larry R. Kaiser, MD, James E. Lowe, MD, William C. Nugent, MD, Mehmet C. Oz, MD, Donald A. Turney, MBA, and Jaimie K. Wallace, MPS

- 2026 Sample of Survey used by Workforce**

CORRESPONDENCE

- 2033 Reduction in Tracheostomy-Associated Risk of Mediastinitis by Routine Use of Percutaneous Tracheostomy**
Nirav C. Patel, FRCS (C-Th), and Janet Deane, and Nigel Scawn, FRCA

Reply

Jack J. Curtis, MD, and Nicole C. Clark, BS, and Charlotte A. McKenney, RN, and Joseph T. Walls, MD, and Richard A. Schmaltz, MD, and Todd L. Demmy, MD, and James W. Jones, MD, PhD, and William R. Wilson, Jr, MD, and Colette C. Wagner-Mann, DVM

- 2033 Acute Amiodarone-Induced Pulmonary Toxicity After Lung Operation**
Didier Lardinois, MD, and Alexander Handschin, MD, and Walter Weder, MD

Reply

Harold L. Lazar, MD

- 2034 Blood Hemoglobin as an Independent Prognostic Factor in Surgically Resected Stages I and II Non-Small Cell Lung Cancer Patients**
Joseph Watine, Pharm. D, Eur. Clin. Chem., and Pierre Berteau, MD

Reply

Abdul-Rahman Jazieh, MD, and John A. Howington, MD

- 2035 **Combined Aortic and Mitral Valve Operations With Transection of the Ascending Aorta**
Wenlin Wang, MD, PhD, and Kaican Cai, MD

Reply

V. R. Machiraju, MD

- 2036 **Vegetectomy in Brucella Endocarditis**
Hasan Sunar, MD, and Enver Duran, MD

Reply

Nilgün Bozbuğa, MD, and Cüneyt Keleş, MD,
and Mesut Şişmanoğlu, MD, and Esat Akıncı,
MD, and Cevat Yakut, MD

- 2036 **Is Off-Pump Bypass Better? Adverse Effects of On-Pump Conversion**
Michael C. Sinclair, MD, and Gregory A. Wilsker, and D. Lynn Morris, MD, and Rajeev Mohan, BS, and Christopher S. Hollenbeak, PhD

Reply

Mary E. Plomondon, MSPH, and Joseph C. Cleveland, Jr, MD, and Shann T. Ludwig, MPA, and Gary K. Grunwald, PhD, and Catarina I. Kiefe, MD, PhD, and Frederick L. Grover, MD, and A. Laurie W. Shroyer, PhD

- 2038 **Retrograde Cerebral Perfusion**
Anil Bhan, MCh, and Saket Agarwal, MS, and Praveen Saxena, and Panangipalli Venugopal, Mch

- 2038 **Transventricular Aortic Cannulation**
Francis Robicsek, MD, PhD

Reply

John B. Flege, Jr, MD

CORRECTION

- 2039 **Mangi AA, Gaissert HA, Wright CD, Allan JS, Wain JC, Grillo HC, Mathisen DJ. Benign Bronchoesophageal Fistula in the Adult.**
Ann Thorac Surg 2002;73:911-5.

REVIEW OF RECENT BOOKS

- 2040 **Extracorporeal Life Support**
Dan M. Meyer, MD, and Michael E. Jessen, MD

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